MINISTRY OF AGRICULTURE, FISHERIES AND FOOD

Report of the Committee appointed to consider Agriculture and Dairy Diploma Courses in Wales

LONDON
HER MAJESTY'S STATIONERY OFFICE
1957

Constitution of the Committee

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List of abbreviations

| G.C.E. | General Certificate of Education |
|----------|---|
| L.E.A. | Local Education Authority |
| M.A.F.F. | Ministry of Agriculture, Fisheries and Food |
| N.A.A.S. | National Agricultural Advisory Service |
| N.D.A. | National Diploms in Agriculture |
| N.D.D. | National Diploma in Dairying |
| N.F.U. | National Farmers' Union |
| U.C.N.W. | University College of North Wales, Bangor |
| U.C.W. | University College of Wales, Aberystwyth |
| U.G.C. | University Grants Committee |
| W.I.E.C. | Welsh Joint Education Committee |

Report of the Committee appointed to consider Agriculture and Dairy Diploma Courses in Wales

To the Rt. Hon. D. Heathcoat Amory, M.P.

In December, 1955, you appointed us:

Sir.

"to consider and advise on the suitability of approving two-year diploma courses at farm institutes in Wales, with particular reference to the applications made by the Local Education Authorities for Monmouthshire and Carmarthenshire."

In our introductory discussions with your representatives, we took steps to establish the precise scope of these Terms of Reference. We were advised not to regard them as exclusively restricted to diploma training at farm institutes and that, by necessary implication, they did not proclude us from considering alternatives, We have met ten times, and now submit our report.

CHAPTER I

Introduction

Pre-war diploma courses in Wales

1. Up to the outbreak of World War II diploma training in Wales was provided by the University College of Wales, Aberystwyth, (U.C.W.) in aggiculture and dairying, and by the University College of North Wales, Bangor, (U.C.N.W.) in agriculture only, though an occasional student took a diploma course in estate management.

 These courses were well supported. Between 1930 and 1939 220 students were admitted, 111 for agriculture courses and 109 for dairy courses. 176 of them attended at Aberystwyth and 44 at Bangor.

Post-war policy for diploma training

3. New policies for agricultural education emerged during and after World War II. They were based on the reprost of the Committee on Post-war Agricultural Education in England and Wales, 1943 ("The Luxmoore Report," Cand. 6433), the Committee on Higher Agricultural Education in England and Wales, 1946 ("The Loveday Report," Cand. 6738) and the interior report of the joint Advisory Committee on Wales and Post-Carlo and Horizottaval Institutes, 1947 (also under the chairmanthin of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1947 (also under the chairmanthin) of Dr. Loveday and Horizottaval Institutes, 1948 (also under the chairmanthin).

4. The basis of present policy is that full-time agricultural education should be given at the three mutually exclusive levels of universities for three-year or four-year degree courses, agricultural colleges for two-year courses leading to the college diploma and one or other of the national diplomas, and farm institutes for one-year courses generally leading to an institute certificate.

8. Underlying this policy of aggragating the three levels is the view, which was more or less common ground between the Luxmoore Committee and both of the Loreday Committees, that the pre-war practice of mixing course (e.g., initial diploma as well as depece teaching at univenities, degree as well as diploma teaching at colleges, diploma and even degree courses as well as certificate the committee of the com

attention given to research.

8. Whatever the general merits of this policy, and they have not passed unquestioned, it has not been given universal application. Thus in England the Esser all Lancashire Farm Institutes have been permitted to provide two-year diploma courses as well as the basic one-year course, and the University of Nortingham still provides diploma teaching in diarying.

7. In Wales there is no agricultural college at all and that, in our view, is the main reason for our enquiry.

Application of post-war policy to Wales

8. Unless and until there is an agricultural college in the Principality, diploma

- training for Welsh students can only be provided either:
 - (a) by diploma centres in England; or
 (b) by one or more of the university colleges undertaking diploma training in
 addition to their responsibilities for degree teaching and research; or
 - addition to their responsibilities for degree teaching and research; or (c) by one or more of the Welsh farm institutes teaching for diploma as well as for their one-year certificate.
- 9. Each of these alternatives presented itself in our enquity. Thus we found there and been no agriculture diplema course in Wells since 1999, nichter UNIVERSITY COLIZOR having revived its agriculture course following the policy mentioned in paragraph 4 above, and that Wells ruttenish nave had to set places at establishmens in England. We found that dairy diplemas students have been more fortunate bourse LUCW, in continued no profite course lacking to the old one of the course LUCW, but no continued no profite a course lacking to do to do one or extend beyond 1999—the last day of entry being Michaelmas 1957. To meet these existing and expected gaps in agriculture and dairy courses respectively, we were asked to consider applications from certain Local Authorities in Wales to establish diploma courses at their farm instatutes.
- 11. The Joint Advisory Committee recommended that U.C.W. should be pressed to outsinus temporally the N.D.D. comes at Abseryrowth, and that a one-year continue temporally the N.D.D. comes at Abseryrowth, and that a one-year countries of the committee inside the state of the committee of the commendations and U.C.W. agreed to continue its counte as a temporary of committee of the commendations and U.C.W. agreed to continue its counte as a temporary of committee of the commendations and U.C.W. agreed to continue its countries as a temporary of committee of the committee of the
- 12. When, in 1954, there was again uncertainty whether U.C.W. would continue dairy displanta teaching, the Carmartheashire Authority, with the full support of dairy displant concention Committee P.J.E.C., revived its application to provide dairy displantation of the Carmartheash of
- 13. In 1954 the Monmouthshire Education Authority applied to the Ministry for approval to establish a diploma course in agriculture at its Usk Farm Institute, and early in 1956 the Caernarvonshire Authority asked us to consider the case for a similar course at its Farm Institute at Givenilion.
- 14. The remaining Webh Authority maintaining a firm institute, the Deshighshits County Council, has not formally applied to establish a diplomas course. During our informal discussions with its representatives, we learn that the Denhighshire Authority hoped to introduce at the Lynfasi Lunitute the second-year supplementary course, devoted specially to hill farming, recommended by the Lovedsy Committee. The Authority hoped that afgloma courses would be established at a Webh authority hoped that afgloma courses would be subblished as a Webh authority hoped the afgloma course, devoted specially to hill farming the affects of the area of the action of the

General survey of the present position

- 15. The history of this problem over the past decade points to the two general conclusions which must preface the succeeding chapters in our report.
- 16. First, if the need exists for diploma courses in Wales, and if the established doctrine of exclusive "three-tier" teaching is accepted, then there is no alternative to the establishment of a college. Without a college, some departure from "orthodoxy" must be accepted.
 - 17. Second, it is now apparent that makeshift arrangements will not provide a satisfactory solution. No doubt the Joint Advisory Committee had good reasons for the interim proposals it made to meet the conditions obtaining in 1952; within two years, however, the same problem reappeared, and the need for a further enquiry became manifest. We also appreciate that circumstances have more than once compelled the University to review its attitude towards diploma courses, but the effect has been to cause general unsettlement in Wales and to lead the Local Authorities to assume, with good reasons, that responsibility for continuing the courses might suddenly devolve upon them. From all this we have discerned a compelling need for a stable and long-term arrangement.
 - 18. These two general conclusions have governed our approach to the problem. We have concluded that our enquiry must either lead to the establishment of a college in Wales or to a break with the "three-tier" policy for agricultural education; and we are clear that our own report will have little value unless it points to an acceptable and lasting solution. All this has prompted us to probe more deeply into the problem than might otherwise have been strictly necessary, and to cast our net widely so as to acquaint ourselves not only with the interior economy of universities, agricultural colleges and farm institutes but also with the views and wishes of all interests directly or indirectly concerned.

19. As a result, our enquiry has taken us to U.C.W., to the Harner Adams Agricul-

- tural College in Shropshire, to the Essex Institute of Agriculture at Writtle, and to every farm institute in Wales. During the same period we have examined written memoranda from not less than twenty-seven organisations and individuals, and we have had the benefit of discussions with as many as seventy-six witnesses. There are full details in Appendix A and we take this opportunity not only of recording our keen appreciation of the help thus given to us but also of drawing attention to the widespread interest which the subject matter of our enquiry has commanded within and without the Principality. 20. We express with the very greatest pleasure our sense of deep obligation to our
- secretary, Mr. J. B. Foxlee, He has been untiring in his attentions to the Committee and its work. With great assiduity and ability, he has prepared the material for our deliberations, organised our meetings and assisted us on all matters which required intimate and expert knowledge. To him, and to his co-adjutor, Mr. F. R. Stokes, we give our warmest thanks.

CHAPTER II

The demand for diploma courses

21. Before considering, under our Terms of Reference, whether diploma courses should be provided at certain Welsh farm institutes, we have thought it advisable to satisfy ourselves on the following matters:

- (b) that they are needed in Wales and, if so, which courses should be provided;
 (c) that there is reasonable assurance that students would come forward in sufficient numbers to justify any provision made; and
- (d) that there are suitable openings for those who gain their diplomas.

 This has proved the most difficult feature of our enquiry.

(i) GENERAL CONSIDERATIONS

The value of the diploma

22. Both the need for two-year courses and their character have been questioned. In 1946 the Loreday Committee was inclined to doubt their justification and their future. A far more favourable view, however, was taken by Sir Keith Murray's Committee which sate eight years later and reviewed the work of agricultural colleges. A few of our witnesses have been critical either of the existence or the content of diploma teaching.

23. We are not strictly concerned with this controveny but, in aiming at a long-term solution, we were bound in form some judgment on the issue. The Ministry term of the control of th

24. Although we can see diploma training continuing well beyond the next decade, we carefully noted any doubte expressed to us about the actual content of the courses. It was suggested that the N.D.A. syllabus was obsolete in some respects and total benefit by increased emphasis on farm management and forestry (established to include a modition of technology that would render unnecessary the indifferently-supported course for the National Diploma in Dairy Technology.

28. Suggestions of this kind may appear far removed from our Terms of Reference but we have not been able to distinst stem entirely, especially where they have a bearing on the neath of Waln. This is the case primarily with agriculture courses the term of the state of the demand for agriculture distinct the state of the state in our analysis of the demand for agriculture displomate course. Measure to the matter in our analysis of the demand for agriculture displomate course. Measure to the matter in our analysis of the demand for agriculture course and the state of th

Impact of pre-war short courses

26. An important influence in pre-war agricultural education in the Principality
which has been constantly mentioned to us throughout our enquiry was the
provision of "short courses" at U.C.W. These courses undoubtedly had a material

bearing on the flow of Weish nucleans for diploma training.

27. These "short courses" were given in both agriculture and distrying. The dairy course was confined to one tession of six weeks during which students were given elementary instruction in distrying bearing on firm duriny processes and the rudicelentarity instruction in distrying bearing on firm duriny processes and the rudicelentary instruction in distripts bearing on firm during processes and the rudicelentary instruction of the students of about six weeks. Along, "The agriculture course consisted of two sessions, send of short six weeks, along a place on the second of "continuation", restain, and of those makes to effect as place on the second of "continuation", restain, and of these

28. Over the decade 1930-39 over 250 students took the short or special courses in dairying, and some 160 took the corresponding short course in genclature (over 100 of the latter returned for the second or "continuation" session). In this way these "short courses" contributed to the diploma intake and it was probably the selective build-up of students, especially on the agricultural side, that has commended the "short course" wasten to so many of our writinesses.

29. Praise and notatiglia for the "whort counts" system recorderated throughout our written and onel viedners. Time and again prominent writness have without not their value to the students and the industry alike. Their disappearance from the Width agricultural scene has been deplored variously by those who raught the students, by those who tought the students, by those who took the courses, and—such has been their impact on both the courses, and—such has been their impact on born in the last years of the course.

30. With some misgivings we have had to acknowledge that, as a stimulus for further agricultural education in Wales, the "short courses" have no counterpart these days, although it is to be hoped that the day and block release systems and other forms of technical and further education may fulfil a similar purpose.

31. In retrospect, the supreme value of the "short courses" was that they provided selective pre-entry training which threw up those suitable for diploma courses, whether their appetites, and fired their ambitions. At the same time the "short courses" had an important psychological effect on the Welsh attitude to diploma training, and we have felt justified in examining this matter is some detail.

Welsh attitude to diploma teaching

32. The "short course" offered the kind of progression that was so characteristic of Webh spriculum! discussion—ther of taking discussion in steps. They fitted naturally into the pre-was structure when there was no universal free secondary contaction and there were young men on the farms quite capable of undertaking work of a degree standard. The "short courses" helped to release this potential by enabling the sundart to go on from his "short course" to take his diploma or even to groduste. Now, with the passage of the Education Act of 1944, there is even to groduste. Now, with the passage of the Situation Act of 1'mag" in the ladder of a strainful and classified.

33. The difficulty is that this pre-war conception of "rung" still presists quite substantially in the Weith stitutude to agricultural cleanation. Frequently our understanding the Weith stitutude to agricultural cleanation. Frequently our the brighter student from the farm institute or a springboard from which the first-ass student can take his university degree. In our view, progression of that kind in present-day agricultural calculation is more likely to be the exception than the interest of the control of the student of the control of the first head of the first

34. There is no difficulty in applying standards of entry and choice of carter to university courses. The university degree course is the natural grounding for the would-be tracked, research officer, or agrical entry and striker. Similarly, the college diploma course is primary for those siming a magnetial repossibility, whether on finant parties, large causes to evertee, or ecking appointments with commercial or ecking appointments with commercial or ecking appointment of the commercial control of the control

35. The scope of the county institute course is less definite. It has been defined as providing "a basic training for students aiming at work of special responsibility in agriculture or in horticulture, whether as farmers or growers on their own

account, or in supervisory or specialist paid employment." In England the farm institute tends to provide the training for the first-class from foreman, rockman or other specialist workers whose services are much in demand on estates and first supervisors. The supervisor is the supervisor of the sup

- 38. If anything, therefore, the Welsh institute is catesting primarily for the son of the family farmer where the corresponding establishment in England may be catering largely for those who with further experience may become specialist to the property of the control of the property of the control of the
- 37. By admitting students above the appropriate level, e.g., those who regard the one-year course as a "rong," farm institutes may find themselves compelled to one-year course as a "rong," farm institutes may find those those they admit, with the result that some students may be fault of the result of their may be out of their depth. To meet criticisms of this kind we were informed by one Weish institute that they had actually divided the students into two levels.
- 38. This situation may itself point to the disadvantages of depriving Wales of diploma courses. On our wints to the Width institutes we were suppried to learn own many visualists were reported to be diploma potential, and we suspect that two-year course if there had been a centre in the Principality. As it is the paint that two-year course if there had been a centre in the Principality. As it is the paint the local institute course where their presence may send to confine educational state local institute course where their presence may tend to confine educational state local institute desire to instruct as a highest level than in a properties to a firm institute.

Vacancies at Welsh farm institutes

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39. We could not avoid investigating the present difficulties conforming Websitem institutes. Here again the problem, and its solution, is contide our Terms of Reference, but we have had to consider whether similar difficulties, notably with the recruiment of students, are likely to be reproduced if diploma courses were considered that the result of the problem of the problem of the problem of the problem.

40. The overriding problem is that 97 (or 36 per cent) of the 271 student places are empty. We have heard many explanations and are bound to analyse the more likely causes to see how far they could affect the success of diploma courses and the supply of diploma students.

4. First, we ought to make it clear that the number of studens attending Weish iran institutes a increased compared with the number before the war. In 1979 iran institutes and increased compared with the number before the war. In 1979 decline is student numbers but because Wales has not yet fully responded to the increased provision and as time the war. Compared with 1979 there is now an additional institute (Calva, Flinthiter, for horticalural sundeau) while two of the additional institute (Calva, Flinthiter, for horticalural sundeau) while two of the contract of

42. In this way the number of places at Welsh institutes has been more than doubled since the war but extan satients have not yet come forward in the desired numbers. Necessarily this has denied the institutes the scope for selective entry and, by stretching the range of ability within each ourse, has trended—as we mentioned in paragraph 37 shows—to impair the effectiveness of teaching. It is not easy to provide a common balls for instructing a deal where, as we observed at one institution, boys and the company of the comp

43. The failure to fill the one-year courses is therefore a matter of not taking up facilities that have been expanded since the war. As such it does not necessarily affect the prospects of filling the two-year courses, the revival of which would only amount to restoring pre-war provision.

44. Labour thorage on Webb family farms is the most common of the many reasons given for the disappointing number of one-year undens. If this is accepted then it would equally affect the intake into two-year courses but we are inclined to agree with those of our winesses who agree that the two-year course as a more complete break from the home farm, and that the objective, being more ambitious, is more likely to uppeal to the Webb pure of the objective, being more ambitious, its more likely to uppeal to the Webb pure of

48. Secondly, there is the argument that local preductor of insularity, whether on the part of parents or Li-R.A.5; is militaring against the flow of students particularly from those counties, which are in a majority, where there is no farm institute, pudging by our impressions and our reducence, there is a good deal of force in this countries. The countries of our witnesses receib that Li-R. As repossible for farm institutes cannot always count on wholebearted support and a streable flow of rundern from adjacent countries. By the same token there is no adouted assurance that all Wealth and the countries of the

come any connecting or time attent and plottone the success of our Control.

86. Thirdly, we have heard various doubts about the value of institute over the control because they do not lead to a recognized qualification that the control of the co

any tissue to success. All Next, it is summan squed that fees are beyond the parents' purse. We do
Af. Next, it is summan squed that fees are beyond the parents' purse. We do
not all the square of the square of the square of the square
in the square of the square of the square of the square
defect two-year courses more seriously than those learing only a year. It is a
factor to be borne in mind. High fees, unless accompanied by equally high and
ell-publiched awards and remissions, could detract from the response to diplions

courses.

48. Finally, there is the deplorably persistent misunderstanding prevailing among many Welsh farmers that by releasing their sons for an institute course they will

priguides their case for deferment from National Service when they return to the dad. This far is as unfounded as it is difficult to alley. Some of our witnesses and the second of the

The England/Wales approach to demand

- 49. We were faced with the controversial question whether to build our picture of demand on a combined England and Wales footing, as favoured by the M.A.F.F., or whether to give quite separate consideration to the needs of Wales as urged by, for example, the W.J.E.C.
- 56. We take this opportunity of commenting on the suggestion that language considerations call for separate provision in Welst. Knowledge of Welsh is an advantage for any employment in Welst and is virtually an indispensable qualification in, for example, most of Gwynedd. This applies to those with diplomas in agriculture and dairying—indeed the need for Welsh linguists in these industries is probably more pronounced than in essentially unben careers.
- 51. The great majority of our Welsh witnesses affirmed that no student qualified to undertake a course at diploma level could scriously suffer from linguistic difficulties, but at the same time it was much impressed upon un that the more natural and congenial atmosphere enjoyed by Welsh students among fellow Welshmen lends strong support to the case for courses in Wales.
- 52. Language considerations apart, we consider that Wales can reasonably expose in own provision for higher education of this kind and that its nost and daughters should not have to compete for places and pursue their studies in England where a many as sever diploma centres have been provided. In passing, we note that three diploma centres are available in Scotland and, while there may not be a case for Wales to have parity, it has a legitimate claim to at least one well-established
- 53. Nevertheless, we might have found it embarrassing, particularly at the present une of retencolomnes, to present a case for firsh capital and other expendance in Wales if there had been vacancies at the corresponding centres in Reighand. But that is not the case, at least for agriculture and dairy diploma training. For the result of the control of the contro
- 54. In any event, we should not like to see any difficulties put in the way of English students who wish to study for a diploma in Weles or of Welsh students in England. This could all too easily lead to a wasteful distribution of facilities. It is a tradition in the Principality to welcome students from beyond Offit's Dyke.
- 55. The claim for reparate course in Wales, as we see it, is as much goographical sea antainal. The seven lingibility of the course are dispersed so that there are two each in East Anglia, the Midliands and the South dispersed so that the North. Six of them—four agricultural colleges and two farm similar to teaching for diplotance before the war. The two farm institutes (see paragraph and the sevent allowed to containe diplotan teaching to meet demand in their seas. The sevent centre, Shuttleworth College, was established by private trust in 1946, Since the war Wales has by comparison, suffered the loss of one diploma centre (U.C.N.W.); and was the comparison of the service of the servic

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56. To us it seems unsatisfactory that facilities in Wales should have dropped sharply (and not because of any decline in demand) over a period when the number of places in England has increased steadily. Accordingly, even if the problem were approached and demand assessed on an England/Wales Booting, we consider that Wales would have an irrestitible claim to priority for any new provision.

Interaction of location and demand

57. In our view the most powerful single factor influencing demand for courses is the choice of the diploma centre. Undoubtedly some teaching establishment can exercise a special "pull" on students, and indeed on parents and employers, whether by reason of tradition, environment, reputation, or more simply the personal qualities of the Professor or Principal in charge.

Sa. Thus of the present Weble farm institutes, Usic (Monmouthshire) can rightly the pride in being the oldest entablishment of its kind in the Principality with a history stretching back more than forty years and a certain "international" channels about its roll of students. Gelli Jaur (Carmartheashire) has the double advantage of being in a Weble cavironment and being universally actnorological as having special lank with the dairy industry, lying, as it does, creaming producing distribution of older proximity to U.C.N.W. and by its very location must have a special appeal to those who cherish the Verbh heritage and language. Llystas (Denhighshire) also has a strong Webls tradition cnicked by a reputation in hall farming circles to which its price-winning hill sheep flowled sear articles.

testimony.

59. In this section we are content to note the enormous influence of tradition, prestige and the like on the flow of students and to some extent on their subsequent carcers. None of our witnesses has disputed the point, and many of them have specifically urged it upon us. We shall examine its implications in more detail in Chapter III.

The two aspects of demand

60. In the succeeding sections we examine separately the demand for diploma tuning in dairying, genizulture, and certain specialist subjects. In each case we have sought to determine not only the demand for such training among young people or their parents but also the demand from the industry for the diplomatrianed product. These two features of demand do not necessarily keep in steps they depend heavily on the human element which is unpredictable in the present

era of full employment and a changing attitude towards further education.

61. A basic need, or an obvious career propect, for men and women with diplomas is not in itself a guarantee that students will come forward in the necessary numbers. Similarly, the fact that students apply for courses and secure diplomas does not in itself inmply that the training is essential or that it will necessarily be turned to the

best advantage when the student subsequently takes up employment.

62. Throughout our enquiry we have had these considerations very much in mind.
At one extreme we have had to pourt against recommending provision which
control and expenditure which might be abortive, or indeed
the provision on an unrealistic scale related only to the ideal. At the other extreme
there is the danger of failing to meet legitimate demand. Between these extremes
there lies a belance, and we have made every effort to find it.

(ii) DEMAND FOR DAIRY DIPLOMA COURSES

63. We deal first with the demand for dairy diploma training because courses are already established in Wales, albeit precariously, which gives us some tangible data on which to found our assessment.

- The response to courses

 4d. During the sity parts 1950-55 U.C.W. received 286 applications for their dairy diploma courses and 119 new students were admitted (157 of the applications, and 68 of those admitted, came from Walso). Over the same period, 5 rundents from the 1948-53 intake (56 of them from Walso) completed their courses, 89 gaining the college diploma and 61 being awarded the N.D.D.
- goming use congec uptonia and to local govarient the NLDD.

 So These figures must be interpreted with caution. For example, several candidates 6.3. These figures must be interpreted from the control of applications for the 1935-34 session, and therefore the underscompleting the course in 1955. Despite this, and despite withdrawal of the pre-war short and the course in 1955. Despite this, and despite withdrawal of the pre-war short and darying (paragraph 2 above)—an average of next soon over the last six years represent nearly double the musual sweage for the ten years preceding the outmanner of the control of th
- 66. The figure also disclose a sinsation of special significance in our enquiry, manely that a diploma course in Wales can attract a sliph proportion of rudeness from outside the Principality, at least for dairy course. We attribute this largely to the prestage of U.C.W., but it may also reflect in some measure the windrawal of dairy diploma courses from, for example, Reading University, and perhaps also disclose the properties of the pr

Career openings

67. We are satisfied that there are abundant openings in England and Wales for those who can gain their diploma in dairying. From informed sources, such as the Milk Marketing Board, the British Dairy Farmers' Association, and the National Dairymen's Association, we have been told that far more diploma material could be absorbed than is at present available. There is, in addition, a small but steady intake into the Ministry's advolvey and milk-testing services.

- 88. There are no serious doubte that these operaings for employment will continue for many years ahead. The annual inside of qualified presses into the distription industry, whether on large dairy femines are industry, whether on large dairy femines are industry, whether on large dairy femines are consistent or processing factories, is regular and certain. Distription of the control of the
- 68. We have noted the modification and the contraction of the individual of the position representation in the individual relationship and have considered the possible representations in the fine position level Deperci counter have already been introduced at Reading and Nortingham Universities and are ferenhandword at U.C.W. we do not expect this to have any significant effect on the contraction of the con

course. Our assessment

76. For dairy diploma course, therefore, the demand is ressuring on both frours. We can confidently report that a reasonable flow of underton con be reported and that appointments are assured for those who succeed in their nucleic. Here, in our view, is an ample case for establishing a Welsh diploma course on a long-term footing and having sufficient resources to cope with an annual intake of at least reasonable with the contract of the co

(iii) DEMAND FOR AGRICULTURE DIPLOMA COURSES

71. The likely response to agriculture diploma courses in Wales, and the Welsh need for such courses, are far more difficult to assess. While we are not exactly breaking new ground here, we are exploring a field that has lain fallow for nearly twenty years.

Estimating the response to courses—the pre-war picture

- 72. In paragraph 2 above we noted that during the ten years before the war, U.C.W. admitted 109 dairy diploma students, while U.C.W. and U.C.N.W. together admitted 111 agriculture diploma students—in taken case an average of about 11 students a year.
- 73. In paragraph 65 above we noted that present-day recruitment for the dairy course has increased by nearly 100 per cent on pre-war, with the annual intake now averaging 20 students. If a revived agriculture course could look forward to the same increase on pre-war recruitment levels, about 20 students a year could be expected.
- 74. The statistics and trends for Great Brissian afford every reason for expecting this increase on pre-war numbers to be achieved and probably exceeded. In the five years 1951–55 more than twice as many candidates presented themselves for the N.D.A. examination (1,654) as for the N.D.D. examination (1978). Taking successes only, which is probably the best guide to true diploma material, the numbers gaining the N.D.D. have not yet doubled on pre-war, whereast those

| 5eu | ming die 14.0-4 | i. have more than the | neu. | Percentage |
|-----|------------------|-----------------------|----------------|-----------------------|
| | Diploma | Awards 1931-35 | Awards 1951-55 | increase in awards |
| | N.D.D. N.D.A. | 250 245 | 452 765 | 80% 212% |

- 75. Paragraph 65 above suggests that the intake of dairy students has not suffered from the loss of the U.C.W.'s pre-war short courses, but we suspect that the loss might be more apparent in the response to post-war agriculture courses. We understand that the dairy short courses were, compared with the agriculture courses, somewhat elementary.
- 76. One essential difference is that a diploma in dairying is generally an indispenable requirement for certain careers and that in intell prompts applications for the course. The agriculture diploma may similarly be indispensable for some appointments, but for those who intend to form on their own account it is more in the nature of a long-term investment, the value of which may only become apparent over the vense.
- 77. Another difference is that the candidate for the dairy diploma realises how much he must get to know, whereas very often the candidate for the agriculture diploma does not come forward until he realises how much he does not know. It was here that the per-awar short course conferred a special benefit by awakening young agriculturists in Wales to the need for more and deeper knowledge of their subject.
- 78. We have come to regard this awakening and stimulation of demand as the key to the problem on the agricultural side. We are in no doubt that there are more than enough students of diploma potential in Wales to justify a course; our main doubt is whether, in the abstance of "distort course;" by the would come forward in the necessary numbers. The representatives of the Ministry of Education were optimistic about the number of students that could be expected as a result of the student of the country of the cou

ance in our enquiry and have questioned witnesses closely in an endeavour to obtain reliable data. The more significant points from our evidence are summarized in Appendix B.

Estimating the response to courses—the post-war picture

79. From this interesting and helpful spread of evidence we refer first to the statistics supplied by the Examination Boards which reveal that over the past five years an average of 6 or 7 Webh residents have been annually examined for the ND-DA. The majority of them pursued their studies at the Royal Agricultural, so of the ND-DA. The majority of them pursued their studies at the Royal Agricultural, so of the ND-DA. The majority of the pursued their studies at the Royal Agricultural Studies and the ND-DA. The studies of the ND-DA. The studies are the ND-DA. The studies of the ND-DA. The studies are the ND-DA. The ND-D

places.

80. The numbers in pangraph 79 above are not exhaustive because other students from Wales will have enabled at one or other of the centres in England or Scotland, the students of the control o

81. There is also the possibility that some Welsh residengs, suitable for diploma training, have failed to obtain places in England or Soxland. The evidence of the Moamouthshire L.E.A. (Appendix B) and the testimosy of other witnesses, point this way, and during our visit to Writtle Institute we learnt that some difficulty had been experienced in accepting Welsh applicants because of the inevitably different nature of their practical experience.

82. To suries a a quantitative estimate of any genuine but unsatisfied demand from Wales would require considerable and desirate research, e.g., to ascertain from many applicamen should not be redoced either because they had simultantive many applicamen should not be redoced either because they failed to because they failed to satisfy minimum per-entry qualifications. The picture we gained at Harper Adams College may be representative; of the 15 Welsh applicament for that P50 courses, I and been accepted mind only 5 of the remainder or applied to the property of the property and only 5 of the remainder or applied to the property of the property and only 5 of the remainder or applied to the property of the property and only 5 of the remainder or applied to the property of the property o

with the College requirements—and they might to accepted in a later year. 38. Without, however, venturing into possibilities and probabilities of this kind, there is still tangible evidence in paragraphs 79 and 80 above that some 10 Welsh students a year are leaving the Principality to acquire diplorant training in agriculture. We have little doubt that the majority if not all of them would prefer to for a counter in the Principality. A regard them as an assured minimum nucleus for a counter in the Principality.

84. Beyond this we enter upon impondenbles, notably the number of young people in Wales of diploms standard who do not take two-year course for lack of a centre in Wales or a place in England. Of all our evidence on the subject the most conclusive is to be found, as we saw in paragraph 38 above, in the surprising number of diploma-standard students now taking one-year courses at Welsh farm institutes.

85. We unhesitatingly accept the testimony of the several Directors of Education, of Principals of farm instituses, and of H.M. Staff Impactor of Schools, which consistently discloses that some 20 per cent of the students at each Webh institute (or about 30 students in all) have the educational qualifications, display the general standard of proficiency, and evince the outlook and interest which would fit them for places on a dithoma course.

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88. That these students (and their parents) are interested in further colucation is manifest from their presence on the one-year institute course. That interest should, in our view, see at feast one-fitted (or not less than 10) of them onlying for a two-plane of the collection o

Our assessment

87. In framing our assessment we profer to rely solely on those of known talent in Wales who are either studying for the diploma or are capable of doing so and who have taken positive steps to acquire further education. We thus confine ourselves to a minimum figure of 10 students under paragraph 83 above, and the minimum of a further 10 under paragraph 86 above.

88. This enables us to foresee a response of some 20 suitable students each year for a diploma course in the Principality. Such an estimate is entirely consistent with the calculation based on pre-war figures in pangraph 73 above. In the process a handful of extra places would become available in England where, as we have been informed, all agriculture diploma establishments are turning away applicants.

88. Some of our witnesses have contended that the revival of a Weish diploma course in agriculture would quieldly receil a latent demand among young agriculturies who, at present, are equally indifferent to a two-year counse far away in many the county of the would tend to support higher estimator or calculations of intake variously furnished in Appendix B; it would also permit of greater numbers, or a more selective entry, for any course that was introduced.

96. It is our general view, however, that any new course should be based on the expectation of up to 20 students a year as in paragraph 87 above, that it should be an experimental provision in the first instance, and that its future should be reviewed after a trial period of not less than five years.

Career openings and the needs of the industry

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91. On completing an agriculture diploma course most students still require further finet-clear practical experience. Thereafter four main avenues are open to them. First, as furmers' assistants and assistant farm managers leading to jobs as bailiffs or farm managers; second, as technicians and field workers for commercial firms; third, oversees; and fourth, those students who return to their fathers' farms or even to furms of their own.

92. The distribution of students among these several careers varies considerably over both space and time. For example, there are far more managerial openings in counties of predominantly large seates than in those of small family farms; similarly, the number of posts in commercial firms has greatly increased since the war and no doubt fluctuates with prosperity in the farming industry.

\$3. The picture we gained at Engret Adams College was that, of the 65 students who completed their course in 1955 and did not subsequently enter the Forces, 21 (or nearly 50 per cent) obtained appelarments as assistant fram managers, 3 went overseas and a further 5 continued with other studies, 7 returned to home farms, and 1 secured on the farms of the contract of the farms of the contract of the farms of the contract of the farms of the farm

by N.D.A. candidates over the past three years, viz., one-third for practical farming, one-third for farm management, and one-sixth each for practical farming interests (e.g., on the landowning side), and for a variety of appointments at home or overseas. Latterly the Boards have noted a trend away from appointments with commercial firms and towards practical farming.

94. Our witnesses differed about the extent of the opportunities for agriculture diploma students for paid employment in Wales, but have been unanimous and insistent on the urgentineed for more of them among the ranks of practical farmers in the Principality.

95. Weighing up our evidence, we rather doubt whether holders of the N.D.A. can find many openings in Wales for attractive paid employment. A nation of predominantly small family farms, with few large estates and still fewer "bothy farmers" requiring a stilled manager, cannot reproduce the market for N.D.A.s which undoubtedly exists in England. Harper Adams College reported that they were unable to satisfy the demands from the industry.

96. Hench lies a grave danger to agriculture in Wides, Just as it is a Welsh characteristic to the agricultural enhancism is tasges, to it is often a Welsh architecture of the state of th

extent that that is true, while is a nation is progressively being distance of inlent. Ye. Ter these mere was a time when Walls was in such distanced or feerining in Section 1. The property of the property of the property of the section of the a span of technical knowledge and could turn it to such immense advantage for their nation and industry. The recent respect of the Mac Walls Investigation by their property of the Mac Walls Investigation to White Paper issued by the Government (Cand. 9909) illustrate some of the native problems now family Webb agriculture, and as the Maintee kinned in did after visiting the next. The nawer is quite simply more and beenter technical education that the property of the property of the property of the property of the things that the property of the property of the property of the section of the property of the property of the property of the section of the property of the property of the section of the property of the property of the section of the property of the property of the section of the property of the section of the property of the section of the property of the property of the property of the section of se

88. If, therefore, the Welsh runal exonomy is to be strengthened and in to throw up future leaders engable of shaping its agricultural destinies, it must retain more of its youngest and most gifted practical farmers. The experience of World War II brought out in dear relief the immans benefits of the prowar diploma and short course is the university colleges. We have the university of the Widsh Secretary, that the state of the university of the widsh Secretary in the state of the university of the widsh Secretary in the state of the state of

98. Fortunately the vacuum (as it was described to us by Cardiganshire Education Committee) is not complete, thanks to the part played by the Young Farmers' Club movement. Yet their effectiveness is being butted by fack of diplome material on the home farms of Wales. Our evidence from the Welsh County Federations, with over 11,000 members, disclosed the serious difficulties now being experienced by

the movement in Wales for lack of qualified assistance for their lectures, demonstrations, tution and proficiency tests. Advisory officers of the National Agricultural Advisory Service (N.A.A.S.) are undoubtedly doing all they can to fill the gap, but they are relatively thin over the ground and with ever-increasing calls on their services, there must be a limit to the time they can give to assisting the Young Farmers' Clabs.

190. In fact nowadays when, compared with pre-war days, there are more and swifter technical advances in agriculture, there is a compling need for a leavening of trained practical farmers well grounded in science and husbandry. Without them the gentius and expense whole point porearch, experimental and edvisory work, as well as the public money speat on improvement grants, production aid considerable of the public money speat on improvement grants, production aid conservative inclusive and progress counces largely from 'looking over the hedge." It is here that diploma training and the response of the diploma-trained mind, can render a real service to Wales.

Character of the course

101. It is, therefore, the needs of agriculture in Wales, even more than the question of careers, which reinforce the case for the agriculture diploma course we have recommended in paragraph 90 above. This prompts us to comment not only on the size but on the nature of the provision.

192. Agriculture diploma teaching in Wales, unlike that in dairying, should not, we believe, seek complexity to reproduce the provision in lingland. We referred in paragraphs 24–25 above to the weight of evidence, which we accept, that a diploma course in Wales should be designed to meet the needs of fast country. We have been impressed not meetly by the number of comparation when the properties of the country. We have been impressed and meetly by the number of comparation they reflect ranging, for the Profuseor of Agricultural Borary at U.C.N.W. to the Commod for Wales and Moamoutshire and the National Union of Agricultural Workers. In Commod the Commod for the Wales and Moamoutshire and the National Union of Agricultural Workers.

be usuably biased towards the problems and conditions of modern farmings in the Principality. The exact his as is an attract best left to the expects, but in passing we should expect to see an exceptional emphasis on farm management, with parcular reference to the economics of smaller bodings and oplant farmings, the control of the expect of the expect of the expect of the expect of the might catter specially for shelter belts as well as the cultivation and uses of hedgematices. Such as syllabus would tend to attract precisely the kind of student for whom precised farming in the Principality.

104. Some of our witnesses favoured the institution of a separate Webb diploma on the Scottish sallogy, but there was no unanimity. The chosen center could, like those in Ingland and Scotland; as we was not unanimity. The chosen center could, like those in Ingland and Scotland; in a Webb N.D.A. Beyond that there is much to be said for Nebb students containing to present themselves for the N.D.A. examination, not neetly for the additional status thus acquired but as a very official country of the country of the N.D.A. examination, not neetly for the additional status thus acquired but as a very official country of the needless of the N.D.A. examination, not neetly for the additional status thus acquired but as a very official country of the needless of t

106. As a corollary, however, we should hope that formal Wesh representation on the Emmination Boards might follow any successful establishment, after its trial period, of an agriculture diploma course in the Principality. As we understand the position, Wale's at present represented more by the accident of personalisits than because it is a nation whose agricultural future depends beavily upon young people of diploma standard returning to supply their studies to the Ind. We were gratified

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to learn that if necessary the Examination Boards would be prepared sympathetically to consider ways and means of regularising their Welsh representation.

(iv) SPECIALIST DIPLOMA COURSES

106. Apart from agriculture and dairying there are as many as five specialist diplomas relating to the land, namely in agricultural engineering, estate management, forestry, horticulture and poultry. One of our witnesses went as far as to suggest that we should budget, over the long term, for separate courses in each of these subjects to be provided within Wales.

107. We do not necessarily exclude the possibility that in years ahead one or more of these subjects may justify a separate diploma course in Wales, but we are bound to report that, on the evidence presented to us, there is no clear demand for extending the Welsh provision beyond agriculture and dairying at the present.

108. Taking the subjects individually, we have noted that the existing centres in England are not experiencing any special pressure for places on their diploma course in agricultural angineering, and at Harper Adams College (where the course is to be discontinued), we were told that the market for the trained product is less favourable at home than overseas, where the demand is encouraging.

109. In the case of satate management we can only point out that during the 1930's, when a special diploma course was available at U.C.N.W., there were never more than two students attending in any one year.

110. In contrast, forestry is of increasing significance in Wales, and its integration with agriculture in a tehme of the unterest importance at the present time. We have recognized this in advocating special emphasis on feestry as the agriculture diplomate recognized that is advocating special emphasis on feestry as the agriculture diplomate many emerges, but it is our impression that developments in that direction may have to swalt an increase in the number of diploma-level forestry posts that are made to the contrast of the contra

11.1 Therefore, although we have been in touch with the Forestry Commission on the matter, and although we understand that the Commission are at present reviewing their own educational facilities in Wales, we have not felt justified in extending our detailed enquiries to take in forestry. Nevertheless, we see every advantage in any forestry diploma course in Wales being housed alongside the new agriculture course we have recommended.

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112. The continue of a lower feecimismos.

113. The continue of a lower feecimismos acres have been resident in continue of the continue of the

the respine sign at standard or stonents from Waies, should in due course enable the case for diploma training to be judged realistically.

113. Courses leading to the Valencia Diploma in Poultry Hustra' are at present was allowed by the Harper Admina College where, we were told, there is scope for increasing the intake sufficiently, in the Principal's view, to satisfy the England-Wales reoutement over the longer term. If a scoon poultry diploma centre proved wales reoutement over the longer term. If a scoon poultry diploma centre proved the province of the province o

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interest of geographical dispersal, Wales could stake a particularly strong claim. We have noted that, during recent years, only a few students have attended the one-year specialist poutlyr course at Usk Farm Institute.

114. It will be apparent that we have not fift justified in entering at all deeply not the case for these specialist diploma courses. Insertibly we have concentrated on diploma training in agriculture and diarring for which specific applications were quoted in our Terms of Reference, whereas no formal requests have been submitted to the Minister to enablish any other courses. More generally, we have found that reference to specialist courses of this kind has tended a by the distribution. The course of the course of the contract of the course of the course

CHAPTER III

Location of courses

115. In Chapter II we have stated a case for Wales to provide diploma training for about 80 students at any given time, i.e., 20 each for the first and second year instruction in both agriculture and dairying. We now consider where they should be trained.

(i) THE PLEA FOR UNIVERSITY OR COLLEGE DIPLOMA COURSES

Synopsis of evidence

116. Our evidence on the siting of diploma courses has proved almost unanimous. The overwhelming number of organisations and witnesses have pleaded for retention of diploma training at the university colleges or, failing that, for an agricultural college to be established in Wales.

117. Both pleas are in fact consequent with the wider interpretation of our Terms of Reference and it is important that they should be seen in proper perspective. Certain Weish L.B.As applied to establish diploma courses at their institutes. Certain Weish L.B.As applied to establish diploma courses at their institutes, and their applications were included in our Terms of Reference, folely on the assumption that the University of Wales was withdrawing altogether from diploma stenching and than an agricultural college in Wales was not contemplated to fill the gap. Our evidence has persistently questioned other or both of these assumptions, and has been discovered to the control of the cont

at Welsh farm institutes and the respective claims of centres such as Geili Aur, Glynllifon and Usk. 118. Although, therefore, our Terms of Reference did not direct us primarily to

consider whether the University of Wales should be asked to continue diploma training, nor whether the time is ripe for an agricultural college in Wales, it is our duty to present the state and weight of evidence on both subjects. Nor would it have been possible to ignore it.

Attitude of the University

119. Our witnesses have dwelt on the immense value of the historical ties between the University and the agricultural industry in Wales, on the excellence of the pre-

war diploma and short courses, and on the "pull" which the university colleges can exert on the young people of Wales. It is most remarkable that although the university colleges have not conducted diploma courses in agriculture for nearly twenty years, nevertheless, the quality and value of those courses remain the subject of persistent eulogies to this day.

120. By rendering such signal service to the nation and the industry the University not only built up a lasting tradition; it came to fill a role which it could not wholly abdicate without leaving the Welsh people with an abiding sense of loss. Our enquiry revealed Wales in this, as in other respects, looking to its University for leadership and inspiration.

121. In all fairness to the University, however, there must be a limit to the responsibilities which it can assume. Quite apart from the present doctrine of three tiers in agricultural education (paragraph 4 above) the modern trend in the universities generally is away from sub-degree teaching and towards an extension of research and post-graduate activities. These are fields where university resources, and often only university resources, can be turned to best advantage; this may be particularly true in Wales where, as has been pointed out to us by the Guild of Graduates of the University of Wales, there is relatively limited research provision. Moreover, without adequate development in these directions a university cannot expect to maintain its contemporary standing and prestige.

122. There is, in addition, the problem of financing diploma courses at universities. Exchequer grants to the universities are paid through the machinery of the University Grants Committee: In paragraph 11 above we noted the exceptional arrangement whereby, with the agreement of the U.G.C., the Ministry has been paying a small annual grant to maintain the dairy diploma courses at U.C.W. under the interim arrangements recommended by the Joint Advisory Committee. The U.G.C. have made it clear to us that they regard continuation of this N.D.D. course as an exceptional case and that as a matter of general policy they are reluctant to encourage any new sub-degree courses at a university institution.

123. In these circumstances we do not see how the University of Wales can reasonably be asked or expected to rescind the decision against diploma training taken (and subsequently reaffirmed) by its Academic Board. On the other hand, we should not like our report to be the instrument which severed one of the most valuable links that has ever been forged between the academic world and practical farming, We regard it as vital that the link should be preserved.

The ideal of a Welsh College

satisfied.

124. If they cannot keep their university system for diploma training, Welshmen understandably want an agricultural college of their own. The concept of a college has always had a special place in the hearts of those deeply interested in agricultural education in the Principality, but so long as Aberystwyth and Bangor taught for diploma as well as degree even the most fervent idealist seems to have been amply

125. As the University has progressively moved away from diploma courses so this desire for a Welsh College has come into prominence. Today those who advocate the college do so either as a "second best" to restoration of the full pre-war university system or because they have discerned, in the changed attitude of the university authorities, no prospect of permanence in that system. Some have obviously identified our enquiry with the end of the "ancien regime" and have therefore seen in it the time and opportunity to translate the college ideal into reality.

126. It was here that we found in our evidence a remarkably widespread and spontaneous expression of Welsh feeling which transcended sectional or local interests. The spokesmen of the industry itself, whether through the National Farmers' Union, the National Union of Agricultural Workers, the Royal Weish Agricultural Society or the Webh Factenion of Young Farmers' Clish, developed the theme of a college. Especially notworthy was the first that the W.J.E.C., is well as several individual Webh L.E.A.s. defined the college as their ideal. Prominent wincesses in the field of agricultural education, such as Dr. Loveday himself, contrained as of the advantages of a college, and from university circles the argument extension of the development of the collid of Graduates. Significantly, earlier of the Cuild of Graduates, Significantly, earlier of the Cuild of Graduates. Significantly, earlier of the Cuild of Graduates of the Cuild of Graduates.

127. United in their recognition that a college was the long-term ideal, and in their plea that nothing should be done to prejudice it, the various witnesses differed on its immediate prospects. Some claimed that the college could be established forthwith; others foresaw difficulties in present circumstances, or doubted whether the case was yet mature.

128. We declare our full sympathy with this ideal of a Welsh Agricultural College, and this has materially influenced the shape of our recommendations. It will be apparent that in the two diploma courses catering for 89 students (paragpab I 13 above) we have already recommended an experimental provision which at least in scope and size, compares favourably with the latest English College at Shuttler.

129. The only way to safepared the ideal of a college is to bring the agriculture and dairy diplona courses together at one center. None of our winnesses has questioned the advantages or windom of doing so, and we recommend accordingly. The college ideal must recede if alignous courses, and the staff and capital only reason of the institute of the staff and capital courses. The college ideal is not a contract of the institute of the contract of the institute of the contract of the institute of the capital course of the institute.

(ii) THE IMPLICATIONS OF CONCENTRATING COURSES

130. Apart from safeguarding the concept of a Welsh Agricultural College, the concentration of both diploma courses and 80 diploma surdens in one establishment has other important implications. It precludes us from finding in favour of the individual applications for single diploma course quoted in (or arising from) our Terms of Reference, i.e., by the Centroshite and Monneutshithe Authorities of a course leading to the N.D.D. A. and by the Carmarthenishre Authorities of a course leading to the N.D.D.

Other effects

13.1 By bringing 80 students together under one roof, the conjunction of the two courses opens up possibilities of a very destrable corporate life among the future generations of agricultural leaders in Wales who would thus come together for their diploms studies. We think it better that they should congregate in this way rather than form a kind of select minority in the midst of institute students, generally younger and certainly studying at a quite different page.

132. Next, concentration may permit of some economy, or at least the optimum use, of teaching staff and facilities. This was one of the principal points registered in a detailed memoradum we received from the County Councils' Association—and we understand that their conclusions were only reached after penetrating the contraction.

discussions with the Principals of the Essex and Lancashire Farm Institutes.

133. It would be difficult to defend laying out a good deal of capital and providing a complement of teaching staff of the necessary standard exclusively for a signification ourse of 40 students divided between the first and second years of their

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training they should preferably be used, so far as possible, for instruction at that level. Concentration of both agriculture and dairy courses at one centre would help to do this, especially as the two diplomas have basic sciences and some elements of husbandry in common.

harmes my surplus siploms facilities and teaching restorates to such the level of instantance. This brings in all the signments for segregating two-year diploms training from the one-year (certificate) and three-year (degree) course. These segments have been satured a tenth by earlier Committees (grangups 5 above) and we do not propose to the first contraction of the committee of the committee

Diploma training at English farm institutes

135. Concentration of the courses also enables us to draw freely upon the experience of diploma training at the Bases and Luncaship Ferm Institutes, both of which teach for at least two diplomas. Recognition of these institutes for diplomas ratining has called for special consideration on our part because it has been adduced in our evidence as an argument for a suffine stranger the caperiment has succeeded; and second, whether similar conditions are reproduced in Wales.

138. The Esser Institute as Writtle is probably unique. It has the distinction of being the dollest from institute in the country and it has always featured advanced level teaching. Before the war Writtle prepared students for the B.S. (London) as well as for diploman in agriculture, borticulture, dairiya and poultry husbandry. Since the war, courses leading to three of the national diplomas (agriculture, horizolture and agriculture) and preferring have been provided. We were not surprised to learn that it has been recommended that Writtle should ultimately become a colling and that a farm similar thread for established demokers in the county.

137. We understand that this possibility of uplifting the status of Writtle is still under active condictation. As a potential development it is of first-dass interest to our problem in Wales; first by suggesting that a college on emerge from a constraint on facestapid diploma course; and second as an indication that in Bisec the provision of one-year farm institute course and two-year diploma course may not accessarily continue in the same establishment.

138. The Lancashire Institute is also unique in that it consists of free establishment exspectively at Hutons and Winnarsteigh, each having an institute farm. The dairy counses are centred on Hutton and the agriculture courses on Winnarsteigh, though both are under common direction and courted and share various tracking staffs and facilities. We have not visited this institute because it weems any of the Weshi farm institutes where diolona courses might be provided.

139. Two other features of the Luncashire Institute are, however, relevant to our problem. One of the grounds for speproring as N.D.A, course at Winninsteleigh reproductions of the production of the production of the production of England; this lends force to the identical argument which we stated for Wales in paragraph; 5 shows. Secondly, and this again is relevant to our own proposal for Wales, Winninsteleigh's N.D.A. course has only been sanctioned experimental or the production of the p

140. Clearly recognition of these two English institutes for diploma training has been exceptional and it is significant that all other applications from L.E.A.s in

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England have been rejected. Moreover, it is a key consideration in the applications from Welsh L.E.A.s that they come from counties having a relatively small catchment area (e.g., Caernarvonshire with 4,971 farms over one acre, Carmarthenshire with 7,761 and Monmouthshire with 4,188) which are thus dependent on the interest and goodwill of neighbouring Authorities for their flow of students. Here again the same conditions are not reproduced either in Lancashire (17,266) or in Essex (9,545).

141. Our general conclusion is that the precedent and experience of the Essex and Lancashire Institutes are neither powerful nor particularly valid arguments for a comparable long-term arrangement in Wales.

(iii) USE OF A WELSH FARM INSTITUTE AS A DIPLOMA CENTRE

142. From this point we have naturally directed our thoughts towards the possibility of providing the combined agriculture and dairy diploma courses at one or other of the Welsh farm institutes. We have examined this problem by addressing it to all the L.E.A.s directly concerned, by visiting each of their institutes, by reference to arrangements in England, and subsequently by questioning the great majority of the organisations and persons who presented us with evidence.

Factors influencing the choice

143. If the two diploma courses were to be provided at one of the Welsh farm institutes we should expect the choice to turn on three factors in the following order of importance:

 The attitude of the L.E.A. concerned.
 The "pull" of the particular institute (see paragraphs 57-59 above). 3. Cost.

We advisedly put the cost factor last. However cheaply a particular institute could be converted for diploma teaching, whether exclusively or alongside the farm institute courses, it would be wrong to pursue the possibility without the wholehearted support of the L.E.A. concerned, and false economy to proceed without the assurance that students would be attracted in the desired numbers, which is the first condition of a successful course.

Attitude of the L.E.A.s concerned

144. The attitude of the Welsh L.R.A.s concerned presents no difficulty. The Caernaryonshire, Carmarthenshire and Monmouthshire Authorities have each indicated their willingness to provide the two diploma courses at their respective institutes. They have furnished us with helpful though necessarily tentative estimates of probable cost with an assurance that they would provide any supplementary facilities or staffs that might be required.

145. We also believe that each of these Authorities would accept what we regard as a fundamental condition, namely, that the new diploma centre would be a Welsh national institution and not the prerogative preserve of any particular L.E.A. Only in this way would there be any real scope for the link with the University of Wales which we are so anxious to preserve and which has been urged by the Council for Wales and Monmouthshire as a concomitant to any institute diploma training. A sensible arrangement would be on the lines suggested to us by the Carmarthenshire L.E.A.; they visualised that the territorial Local Authority, while surrendering overall control, would be responsible for day-to-day management.

"Pull"

146. For the purposes we have in mind the respective attractions of the three institutes (or more explicitly their "pull" on students) depend on their tradition

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and ninarine. We dismiss from the redoning matters such as facilities and the standard or pretiging of teaching stellar because the addition of 80 diploms students must bring far-reaching changes to any establishment previously catering only for conse-year course. These nations cause into the facus of our stable the "purplet and the standard of the standard standard standard standard standard standard standard as the oldest farm institute in Wales (incidentally it provided its own diploma course before the way, with Gell Mar the next and Oppliffon the youngest (dough, of course, not without an inherited tradition from Marine the youngest (dough of course, not without an inherited tradition from Marine the youngest (dough of course, not without an inherited tradition from Marine the Youngest (dough of course, not without an inherited tradition from Marine the Youngest (dough of course, not without an inherited tradition from Marine Marine to the university agricultural department. If the link between the University and the new diploma centre is to be asyrhing more than nominal, Glynliffon has a respectively whout 50 and 100 miles from U.C.W.

148. From smother appers, intenties points to Gelll Aur because Camarathembine, while by no means central in the Principality, does not let as an extensity like the counties of Caernarvon or Monmouth. We are confronted here with the very real problem of "The North" and "The South" in Wales, and we cannot ignore the testimony of several witnesses who have said that if 'Ust taught for diplomas, sucheans from North Wales would still look to fairper Adams College and, by the name obtain, that South to self-size and look to fairper Adams College and, by the name obtain, that South to self-size and look to fairper Adams College and, by the name obtain, that South to self-size and look of the South of the College of the College and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and week the ideal of an art of the Course and the Cou

"all-Wales" college.

149. Summing up on the paramount consideration of "poll," we cannot discens har any of the time institutes has a desirve advantage. Yet our very first winners (the Peramenn Secretary to the Welsh Department of the Ministry of Education), and so many who succeeded him, contended that it should be the main critical for siting diploma courses. On balance Gelli Aur alone seems to us to swold any extreme disadvantage and our report would be incomplete used on its buffer and on the control of the co

Accommodation costs

150. We approach the cost factor in the knowledge that, in terms of accommodation alone, no Welsh institute (except, perhaps, Glynllifon) is in an immediate position to take 80 additional students, particularly at diploma level. As we see it the impact

at each of the individual institutes would be broadly as follows:
(a) Gelli Aur would need to surrender, and adapt as necessary, the accommodation

Now available for 50 one-year students and provide 30 additional student places. A possible arrangement, as the Carmarthenshire Authority were disposed to agree, would be for one-year courses to revert to the earlier establishment at Pibwrlwyd, which is still maintained by the L.E.A. Pibwrlwyd previously accommodated 24 one-year students so that it would need to be expanded.

considerably.

(d) Gjmliffen has exceptional stope for expansion within the present mansion. The Caenarcombine Authority regard agricultural education as having first claim on the available space so that, by displacing other residential further-versions, it is easily conceivable that the proposed 50 two-year places and the present 40 one-year places could be provided under the same root. The alternative, as with Celli Aur, would be to transfer on-year teaching, which the Authority would be relactant to drop, to a separate establishment, act, at it as repeated establishment, act, at the perfood farm institute at Madeyo Casto, response to the provider of the perfood farm institute at Madeyo Casto,

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- (c) Uh can, by utilizing temporary accommodation, house about 100 one-year stadents. Our impression is that there would be little difficulty in converting the present accommodation to as to house 30 troy-par students, but it would be present accommodation to as to house 50 troy-par students, but it would then the present the
- 15.1. Viewed solely in terms of accommodation, therefore, the most inexpensive short-term arrangement would probably be no expand olynillion for courses at both levels. Taking a long-term is both levels. Taking it long-term is long-term in levels a long-term is both levels. Taking it long-term is long-term in levels a long-term in levels a long-term in levels. Taking it long-term is long-term in levels a long-term in levels a long-term in levels. Taking it long-term is long-term in levels a long-term in levels a long-term in levels. Taking it long-term is long-term in levels a long-term in levels a long-term in levels. Taking it long-term is long-term in levels a long-term in levels a long-term in levels. Taking it levels a long-term in levels a long-term in levels a long-term in levels. Taking it levels a long-term in levels a long-term in levels a long-term in levels a long-term in levels. Taking it levels a long-term in levels. Taking it levels a long-term in levels a long-t
- 182. We have not felt justified in extending our review of come in this way. It a particular institute were taken over for diploma courses the present incidence of vancies on one-year course (paragraph 40 above) might not justify developing a fresh centre for institute training. That is a question of policy quite omside our appropriate for us to specify the size and size, without which we were in no position of the the LEA. a farm basis for rendering reviewed estimates to include not only diploma requirements but also the future of one-year courses. We must be disposal a "ready-named" attenuative home for craftings tutdents tutdents.

Other costs

153. Bediede accommodation, our analysis of the out factor must take in any necessary strengthening of traching striffs and facilities such an abronomic, lecture and study rooms, libraries, workshops, farm enterprises and especially the heavy optall equipment (e.g., a steam-sizing belief) required for N.D.D. teaching. Here again the gross cost would embrace not only convention or new provision for diploma courses but also more verywise provision for ediploma students.

154. Any calculation of absolute or comparative costs is, for good reasons, extensible complex. Of accessive we had to ask the individual LEAA for estimates to meet a purely hypothetical situation. For example, in paragraph 151 above we referred to the limits which we felt bound to impose on ounselves when enquiring intent the future of one-year courses, with the result that we could only ask for estimates remed on the samption that diploran and certificate students would share accommodation, teaching until and other ficilities. Whilst this might be a temporary grounds stated in parametal 51 above, exist a 8 along from a reaugement on the grounds stated in parametal 51 above.

185. Moreover, in the nature of the case, none of the L.E.A.a. concerned have had ny intimate experience of training for national diplomas or with the standard and requirements involved, though they left us in no doubt that they would be fully receptive to guidance and active. We aggravate their difficulties by introducing the proposal for concentrating the two diploma courses, a proposal quite at variance with their original applications and their associated estimates.

196. In the particular case of stuffing we are bound to question any assumption, which may underlie some of the L.E.A. estimates, that changes would be confined within the confined of the

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witness who warned us that any "surgical operation" on institute staffs could leave a legacy of bitterness on which it would be difficult to build a tradition for the

future.

187. We are also bound to question any assumption, which may similarly underlies some or all of the L.B.A. estimates, that common lectures and perscited work could be given for certificate and deploras students. It should be presented to the time of that thind. It would tend to aggreen the deploy and the strength of the time of the strength of the strengt

188. It follows that a full complement of diploma-level teachers would be required, and little or no consoure of teaching attained the control of the contro

Limited value of estimates

169. It is executy surprising that the estimates framed by the L.E.A.s in these distinct incumments sell about of those formulated by the Examination Boards as the minimum requirement if the particular institutes were to be recognized for courses leading to their autional displeans. Without the assurance of such recognition we could not, of course, recommend courses at any centre. Eleverists, even the Examination Boards could not proved in the future of one-year courses; this courselves, they examine the provident of the future of one-year courses; the course of their representatives happened to have recently suited them.

180. Our own imprassions, reinforced by our discussions with representatives of the Ministry of Agricultura and with other wisness, tend to support the general conclusion of the Exemination Boards that heavy capital expenditure, increased annual costs, and quite fire-reching useful adjustments would be implied in the conversion of any of the institutes to exact be gained from the fact that both the Examination Boards and the Country Landowners' Association were of the opinion that the least expensive proposition would be the convenion of the User Institute. The Authority estimated that this would involve an initial course of Entitude. The Authority estimated that this would involve as initial course of Entitude. The Authority estimated that this would involve as initial course of Entitle Country and Country and

Grounds for an alternative solution

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161. No obvious choice emerges from our survey of the three institutes. Tradition may point to Usk, and shatton—according to how it is viewed—to Glyhallfion of Gelli Aur. The cort factor can point to any one of them, depending on the future policy for one-year courses and whether a long-term or short-term arrangement is adopted for diploma courses.

162. We have not been able to establish that any one of the institutes would exert a special "pull" on students, though we consider that Glynllifon and Usk are less

favourably placed, geographically, for an "all-Wales" venture. For this reason alone, if the choice were narrowed to one of the farm institutes, our preference would be for Gelli Aur.

163. Nor have we been able to single out any particular institute in the interests of economy. We believe that it would be a relatively costly proposition to use any of them for the combined diploma courses, especially if certificate students were to be displaced as a step towards the college objective. The institutes have been laid out, equipped and staffed for a given number of students at a particular level of instruction; even if they could readily be adapted for a different number of students pursuing a quite different level of studies, and we are by no means satisfied that this is the case, there would still be separate outlay to make good the existing institute provision. If a centre is to be found for 80 new diploma students it would normally be more economic to make new and direct provision for them rather than evacuate an existing establishment and then transfer its courses to a fresh centre opened for the purpose.

164. Inevitably, therefore, we have come to question whether there are compelling arguments for disturbing the present institute structure. We have not found any So we have adopted the wider interpretation of our Terms of Reference and in our concluding chapter we develop an alternative solution.

CHAPTER IV

Proposals for a diploma centre

165. We have explained why, to preserve the university traditions from the past and the college ideal for the future, we are convinced that the two Welsh divleme courses should be established at one centre associated in some way with the University of Wales; and why the quest for that centre has taken us beyond the farm institutes in the Principality.

(I) THE BROAD CONCEPTION

Our quest

166. Our survey of the farm institutes has brought out the essentials we are seeking. We want a centre which the Welsh nation will cherish as its own; one attracting students with the power that only proximity and patronage of the University can impart; and one that, without undue expense, will maintain the legacy of diploma standards and traditions bequeathed by the University,

Our proposal

167. Inevitably, we have returned to where the traditions were born, Our proposal is that there should be established, at Aberystwyth, a National Agricultural College of Wales affiliated to the University of Wales. That is our main recommendation. and a centre such as we have in mind would benefit immeasurably if it could be

closely identified with all Welsh L.E.A.s through the medium of the W.J.E.C. 168. We have chosen Aberystwyth rather than Bangor partly because it is more central; partly because it has a history of dairy as well as agriculture diplomas; but also because in the U.C.W.'s dairy department, with its experienced staff and excellent equipment, there are, we understand, resources some of which might be

Possible reception

169. It would have been presumptions on our part to have assumed at the outset hat a proposal of this kind would accessarily comment indeffeither to the University or to the L.E.A.3; nor should we have felt justified in developing it without some indication of their stitude. So we discussed the matter with the representatives of the W.J.E.C. and later informally work discussed the matter with the representatives of the W.J.E.C. and later informally work with the properties of the W.J.E.C. and later informally and we were left with the assurance that our main recommendation would be given most sympathetic consideration.

170. We can be more categorical about the reaction from those quatters interested in diplames consets, though not constrained by any implication of responsibility for providing them. The project took thape in our minds as our enquiry developed, and during the later stages of our discussions we were able to sound the views of witnesses from as many as deven organizations quite specifically upon it. In every case the reposture our most favorement of the property of the respect of the property of the contraction of the presence of the pres

and Scoland..."

Til. Re-assured that there was no obvious impediment or objection to our proposal, we have felt justified in elaborating it. In doing so we have tried to avoid the extreme of orniting essentials, of emering too deeply into detail, and of trespassing beyond our province. If the proposal is adopted, its implications will presumably be decided by the Ministry and the University in comulation with the W.J.E.C. and other interested parties, while the detailed task of implementing it will doubtless be remitted to the Governing Body of the new College.

(ii) PROPOSALS FOR AN AFFILIATED COLLEGE

Affiliation

172. It would be for the University of Wales to define the acceptable pattern and conditions of affiliation and whether it would be direct to the Federal University or through the nearest of its agricultural departments, namely, U.C.W. In urging the affiliation of the proposed College to the University we note that the concept of affiliated institutions is well known and established in Wales through the extension of the contract of the contra

173. Year would be the risk matter of preserving high stundards. We can suppose, that it would be a condition of stillation that entry qualifications for the College, the appointment of its teaching staff, and internal examining standards would be subject to University supervision. In Capter II we referred to the need of Welsh bias in the agricultural syllabus (nestgraph 103 show) and for the internal diplomas to have a special Welsh significance (paragraph 104 show). Much would be gained if the University could contribute its experiment to the spill staff the staff of the contribute in the contribute to the contribu

national examination purposes.

1744. Near come the benefits which could be enjoyed by the students. Above all would be the inestimable benefits of contact with university atmosphere and activities and all the intellectual and social stimulus that goes with them. There may be stope for tangible benefits to be accorded on the analogy of the U.C.N. W. as secondard Therological Colleges whose students are enabled to regard them. The second of the students are sufficiently as the secondard of the control of the control of the secondard of the control of the control of the students and on the same terms. Beyond this are the special advantages exculair to Abstraythy, and derivating from the presence in or near the rows of

the, National Library for Wales, the Welsh Plant Breeding Station and the Welsh headquarters of the N.A.A.S., etc.

headquarters of the N.A.A.S., etc.

175. Finally there would be economy to the extent that affiliation permitted any

pooling of resources. Here, a we have treaty measurement of the control of the co

Administration

176. We recommend that the affiliated College relocal the administered by a Governing Body of fifteen persons, of whom are would be tripresent on the University of Wales, six of the W.J.E.C. and three independent members and the University of Wales, six of the W.J.E.C. and three independent members of the work of the control of the co

177. The Governing Body would be mainly concurned with questions of broad policy and we recommend that day-to-day business should be delegated to an Executive Committee drawn from the Governors themselves and consisting of two representatives each from the University and W.J.E.C., together with one of the Minister's nominoes.

178. We are of the opinion that the submission of regular reports and arrangements for inspection of the College are matters best left to the M.A.F.F., the University and the W.J.E.C.

Finance

179. In recommending financial provision for establishing and maintaining the College we have had regard to the arrangements for agricultural colleges in England though we have found that some departures would be advisable to recognise and meet the special circumstances of the "all-Wales" venture which we have in mind and which has no counterpart over the border.

180. In the case of non-recurring expenditure—notably, in this instance, initial outlap—we should favour the prevailing arrangements which apply to English colleges whereby the entire cost is met by the Ministry of Agriculture (subject only to the special arrangement that half the expected farm profit is set off against the capital grant).

181. Other expenditure at English colleges, where not covered by endowments, etc., is met from feet and from the Ministry of Agriculture's deficiency grans determined on a quinquent of the college from to us that different arrangements would be necessary for the Welsh. College from you occur, for diploma students resident in Wales, fees related to those now charged for the course at U.C.W. leadings to the N.D.D.

182. The present tuition fee for U.C.W.'s dairy diploma course is £35 a session—though we understand that some increase may prove necessary. This compares

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favourably with tuition fees for the corresponding course at Nottingham University (£55 13s. 0d.), and is well below those charged for the various diploma courses at English colleges and farm institutes, e.g., Studley (£105), Writtle (£108 for outcounty students), the Royal (£130), Harper Adams (£155), and Seale-Hayne (£160).

183. Our difficulty is that the success of the affiliated College would certainly be prejudiced if, to conform with the level of tuition fees in England, it was obliged to charge Welsh diploma students virtually treble the £35 a session now paid by dairy diploma students at U.C.W. On the other hand, the Ministry of Agriculture could scarcely be expected to make good the entire deficiency on running expenses (as broadly obtains with English colleges) unless tuition fees were broadly in step with the pattern in England.

184. We can see no obvious reason why tuition fees for students outside the sphere of the W.J.E.C. should be materially less than those charged at English centres. and a fee of £100 appears to us to be quite reasonable. If, as we recommend, there is to be a differential fee for Welsh residents, and £50 per session would be more in sympathy with the present position at U.C.W., the balance of income should properly be found from Wales.

185. In addition to its annual M.A.F.F. grant, U.C.W. has been fortunate in receiving special grants from certain Welsh L.E.A.s towards the cost of maintaining the dairy diploma course. Some of our witnesses have criticised the fact, which is due to responsibility for university grants being taken over by the U.G.C., that these voluntary and generous L.E.A. contributions do not attract the 60 per cent grant-aid paid by M.A.F.F. on all other expenditure for full-time agricultural education. We believe that in these grants there is a basis for a satisfactory, and we hope acceptable, arrangement for securing preferential treatment for Welsh students while balancing the finances of the College.

186. We recommend that the running expenses of the College should be met partly from fees and partly from a deficiency grant from L.E.A.s in Wales and Monmouthshire perhaps calculated on a quinquennial basis and presumably apportioned between the Authorities by the W.J.E.C. We further recommend that all such L.E.A. contributions should attract 60 per cent grant-aid from the Ministry

of Agriculture.

187. In the succeeding section we shall demonstrate that, under arrangements on these lines, the net L.E.A. contribution may average as little as £200 p.a. per Authority. We regard this as a very reasonable investment to secure a special Welsh status for the College and favourable treatment for its Welsh resident students; it would be consistent with the major participation of the L.E.A.s in administering the College, and would give them added grounds for encouraging suitable students in their areas to apply for training.

Phasing of the project

188. Although we have not concerned ourselves with the possible phasing of the project it is obviously desirable that the present N.D.D. course in Wales should be continued as a going concern until the College has been established. We hope that U.C.W. will see its way to continuing its N.D.D. course for the interim period, and that the appropriate Government grant will be available to it for the purpose.

(HI) COST

189. Despite the many advantages of an affiliated College, and the widespread approval and support it would apparently enjoy, we should have hesitated to develop our proposal if the cost had been disproportionate or if we could have pointed to an alternative which was significantly less expensive. Neither possibility emerged during our review of the likely cost of the College.

190. When we were considering the Wolth farm institutes, and the probable cost of converting any of them, we found two features which subsequently confinented us again when entering into the f_s . A of our stillance College. First, that it must be a major contract, in any circumstance, to provide for 80 new students at the though the confinence of th

19.1. In presenting the succeeding analysis we have drawn freely upon, and are much indebted for, advice from the Ministries of Agriculture and Education and from the staff of U.C.W. Our findings on capital expenditure and running costs are set out in Appendix G and are more in indication of ministrum cost for necessary are set out in Appendix G and are more in localization of ministrum cost for necessary of the control of the staff of the control o

Boarding accommodation

192. One great advantage of Aberystoyth is that there is no immediate necessity or justification for new expenditures on hostel accommodation. The diplement sendents could either take lookings in the town or, as may be preferable, the College could neter into an arrangement with two or more of the large boarding establishments and the contract that the contract the students in a few premises. U.C. who all arready adopted the latter contracts the students and few premises. U.C. who can be contracted to the contract that the contract that the contract the students and it who have been contracted to the contract that the contract the contract that the

193. If, at any time, there were grounds for providing the College with its own hostels the most economical arrangement would be to convert two of the largest boarding establishments in the town each to take 40 students. Experience suggests that the cost would be approximately £20,000.

The College

194. A new bullding would be required for the College itself and, without emering non architectural deadl, we suppose that it would be less expensive to bull of the control of the con

195. From exploratory enquiries we have reason to believe that a suitable site, or choice of sites, would be available within the precincts of Aberystwyth.

The farm

196. Provision of a farm presents rather more difficulty and depends a good of no interpretation of a need. At one extrame souns of our witnesses have suggested on interpretation of a need. At one extrame souns of our witnesses have suggested stocks for practical studies if the College were succeimed educational and experimental establishments in the vicinity (e.g., the Plant lirecting Station, the NA. A.S. half of the college were succeimed the college of the college with the college of the coll

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197. Our estimate lies mid-way between these extremes. We recommend that the College should have its own farm which should be reasonably representative of the pattern of agriculture in Wales and as such need not be very large. In this way the course for the agriculture diploma would be conditioned to its primary purpose of catering for those returning to practical farming in the Principality. A holding of around 200 acres might meet the case, and again we have satisfied ourselves that it should be possible to acquire a property of this kind reasonably near Aberystwyth. In estimating the cost at £16,000 (Appendix C) we have assumed that the farm will either be in sound condition and therefore relatively expensive to purchase, or else that a good deal would have to be spent on renovation. In either event our estimate includes provision for live and dead stock, but floating capital would also be required.

Summary of capital costs

198. Despite the saving of any capital outlay for student accommodation, at least

£50,350 would therefore be required to build the College and provide its farm. At this stage in our review we paused to consider whether expenditure of this order could be reconciled with the trial footing we have suggested for the agriculture diploma course. 199. We have every reason to believe that an agriculture course at the College

would succeed more particularly because students are likely to be drawn to Abervstwyth and because affiliation with the University would safeguard the essential standards and traditions. Beyond this, in the unlikely event of the course having to be abandoned after a trial period, it should be possible either to recover the bulk of the capital outlay (e.g., by selling the farm) or to turn it to good account (e.g., U.C.W., who are progressively expanding their activities to meet the expected "bulge" in university intake, could no doubt use extra laboratories or lecture rooms). To a comparatively modest scale of capital expenditure, therefore, Abervstwyth also offers assurance that a substantial "white elephant" would not be created.

200. Conversely, if the College achieves the success we confidently predict, the time may come when, as we saw in Chapter II, there may be a case for developing other specialist courses. In particular we referred to the advantages of providing any new diploma courses in forestry alongside those in agriculture. On this score Aberystwyth, which is the H.Q. of the Forestry Commission for Wales and has a notable hinterland of forest plantations, has a potential for the future as well as attractions for the present.

Running expenses

201. Appendix C depicts the kind of running expenses that would be involved at the College, Provided the desired aggregate of 80 students can be achieved, it should be possible to strike an effective balance between teaching staffs and student numbers, though in some instances we can foresee economy if staff can be shared with organisations such as U.C.W., its agricultural economics department and the Cardiganshire L.E.A. We recommend a complement of 8 teaching staff (3 shared with other organisations) for 80 students.

202. We are emphatic that the choice of a Director for the College could make or mar its success. It will be a key post, and we recommend that the person appointed should be of professorial calibre. This view is conveyed in our estimate of £2,000 for the annual salary attaching to the post.

203. The remainder of the running expenses would be in the nature of maintenance costs and do not call for any special comment beyond the fact that we have proceeded on the very desirable assumption that the farm account should at least break even. The weight given to farm management in the diploma syllabus is likely to increase,

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and in our opinion diploma students cannot master its essential principles without regular access to practical studies on a profitable farm. Moreover, in these days when the agricultural industry is facing keen competition, parents are understandably interested in sending their sons to places where they can see how farming is made to par.

The balance sheet

204. Assuming that capital expenditure is borne directly by the Ministry of Agriculture (margamph 180 above), that the bulk of the agricultural students and some half of the dairy students out from Wales with free determined as we have suggested (margamph 184 above) and that running costs are of the order visualised (Appendix C) it will be apparent that the College would require a subvention of some 6.8500 see annum:

| Income | £ | Expenditure | | | | | £ |
|---------------------------------|--------|-------------------------|--|---|---|---|---------|
| Fees 60 Welsh residents @ £50 } | 5,000 | Salaries Maintenance | | ٠ | | ٠ | 10,650 |
| Subvention | 8,500 | Reserve . | | : | : | : | 100 |
| Á | 13,500 | | | | | | £13,500 |

205. If our proposals in paragraph 186 above were acceptable, the β,500 mJs vention would be met by Wolfs 1.4.8.A. They would recover 60 per cent (or ξ3,100) from the Ministry of Agriculture, leaving some β,3400 net to be appeared to the property of the property of

Comparative cost of an alternative centre

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206. During our enquiry we have only considered one alternative to the prognose Wesha Agricultural College, namely, the possibility of converting one of the Wolsh farm institutes into a diploma centre. In Chapter III we described some of the farm that the converting one of the converting of the converting the converting of the converting the convert

2076. A limited comparison can be gained by considering each of the major items of expenditure involved. Thus a rough balance could probably be struck between the saving at Aberystayth on hostel accommodation and the saving at an institute on the provision of a farm. For the reasons stated in paragraph 158 above, we should expect requirements for teaching staff to be much the same at either centre.

208. Convenion or improvement of existing aboratories and lecture rooms at an institute would be less expensive than new buildings at Aberystwyl but the use of an institute for diploma courses would demand new or enlarged buildings for certificate students as well as heavy capital expense for the kind of apparatus and equipment found in U.C.W.'s dairy department at Aberystwyth. Administration L.L. A. L. A. Excises could be used on a meron' built.

289. This brief survey does not suggest that it would be appreciably less costly to convert an institute than to establish the proposed College. Indeed our tensitive figure of approximately £50,000 capital outlay for the 80-student College lies midway between the Curriartheashier Authority's original estimate of approximately £50,000 to provide and cupit a new dairy block for 40 N.D.D. students may be vision from 42 N.D.D. and N.D.D.D. students (overgraph 160 above).

vision for 42 N.D.A. and N.D.D. students (paragraph 100 alove).

210. Other factors enter into the reckoning of comparative cost. For example it is our considered view that only Aberystwyth can assure the maximum flow of students and offer a genuine prospect of successfully reviving the agriculture ediploma course; and just as lack of students would mean loss of income, so an unsuccessful course could see capital works lying idlay.

Conclusion

211. The White Paper on Technical Education (Cand. 9703, February, 1950 contained an assumence that more students are being canceraged to come freed for agricultural education and that, as they do, facilities for their education will be increased. This has forrified us in developing our recommendations and we submit described to the contract of the public money required and will play a notable part in the development of Wales and its major inclusive.

Summary of

conclusions and recommendations

212. We are glad to report that all our conclusions and recommendations are unanimous. They can be summarised as follows (recommendations in bold type):

General

- Diploma teaching in Wales calls for a long-term solution and, without an agricultural college, must involve a departure from orthodox arrangements (paragraphs 16-17).
 - (ii) The value and future of the diploma appear to be generally accepted (paragraph 23).
 (iii) The diploma course is normally for the "direct entrant" of a given educa-
- tional standard and career intention (paragraph 33). In Wales it is often regarded as a "rung" in the ladder of agricultural education—and this has tended to obscure the functions, teaching standards and objectives of Welsh farm institutes (paragraphs 35–38).

Demand for courses

- (iv) The present incidence of vacancies at Welsh farm institutes does not reflect a decline in Welsh demand for agricultural education (paragraphs 41-42) and the contributory causes need not affect recruitment of diploma (y) Wales has an irrestible claim to priority for any new diploma centre that
 - is established, irrespective of whether demand is viewed on an England-Wales basis, or is related solely to the Principality (paragraph 50). (vi) A dairy diploma course should be established in Wales on a long-
 - (vi) A dairy diploma course should be established in Wales on a long-term footing for an annual intake of at least 20 students (paragraph 70).
 (vii) An agriculture diploma course should be established in Wales on
- (vii) An agriculture diploma course should be established in Wales on an experimental basis for an annual intake of up to 20 students (paragraph 90); the syllabus should be conditioned by Welsh needs (paragraph 103); the course should lead to the N.D.A. examination (paragraph 104), and formal Webh representation on the National Examination Boards would be an advantage (paragraph 105).
- (viii) There is not yet any case for providing other specialist diploma courses in Wates (paragraph 107)—but any forestry diploma course introduced at a later stage should preferably be housed alongside the new agriculture course (paragraph 111).

Location of courses

- (ix) The University of Wales can no longer be expected to make direct provision for diploma courses (paragraph 123).
- (x) The agriculture and dairy diploma courses should be provided at the same centre (paragraph 129). This precludes provision of single diplomatical provision of the provision of single
- diploma courses at any Welsh farm institute (paragraph 130).

 (xi) There are no strong grounds for disturbing the farm institute structure in Wales by converting one of the institutes into a diploma centre (para-

graph 164), but if this solution were adopted only Gelli Aur, Carmarthenshire, would be sufficiently central in the Principality (paragraph 162). (xii) A National Agricultural College of Wales, affiliated to the University of Wales, and sponsored by the W.J.E.C., should be established

at Aberystwyth (paragraph 167).

(xiii) Any formula for affiliation would be a matter for the University, who could make a special contribution to the standards and syllabus of teaching, and

by awarding a University diploma (paragraphs 172–173).

(xiv) The College should be administered by a Governing Body of 15 persons, 6 each from the University and the W.J.E.C., and 3 nominated by the Minister of Agriculture (paragruph 176); day-to-day business should be entrusted to an Executive Committee of 5 Governors, in the same ratio of representation (paragraph 177).

(xv) The submission of regular reports and arrangements for inspections of the College are matters best left to the M.A.F.F., the University and the W.J.E.C. (paragraph 178).

(xvi) The Ministry of Agriculture should defray non-recurring expendture for the College (paragraph 180), including the capital outlay of at least £50,000 (paragraph 198).

(xvii) The College's recurring expenditure—of at least £13,500 per annum (paragraph 204)—should be met partly from fees (differentiated in favour of Wehs residents) and partly from a subvention contributed by Welsh L.E.A.s. apportioned by the W.J.E.C., and attracting 60 per cent grant-aid from the Ministry of Agriculture (paragraphs 184-185).

(xviii) Prima facie there is no inexpensive alternative to the College (paragraph 209), and the expenditure involved is consistent with contemporary policy and provision for technical education (paragraph 211).

> We are, sir, Your obedient servants,

OFFLEY WAKEMAN

D. R. SEABORNE DAVIES (Chairman)
T. GLYN DAVIES
J. DONALDSON
W. CHARLES EVANS

J. B. Foxlee (Secretary) October 1956

APPENDIX A

Evidence received

Evidence was given by the following organisations and persons

*Caernarvonshire Education

Councillor J. E. Roberts (Vice-Chairman, Agricultural Education Committee' Alderman Mrs. A. Fisher

Councillor Reverend Robert Jones, B.A. Councillor B. Owen Party

Mr. Manuel Williams, M.A., B.S. (Director of Education)
Mr. W. D. Phillips, B.S. (Principal, Glyallifon Agricultural Institute)
Mr. Isaac Jones, N.D.A., N.D.D. (Former Principal, Madrya Farm Institute)

Cardig anshire Rdusation Committee

*Carmarthenshire Alderman D. Hughes, J.v. (Chairman) Alderman J. M. Davies (Vice-Chairman) Education Committee

Alderman J. Harries, B.B.M. (Chairman, Agricultural Education

Committee)
Alderman T. Ll. Harries, J.P. (Vice-Chairman, Agricultural Education Committee)
Alderman T. J. Williams, J.P.
Mr. I. Howells, B.A., LL.B. (Director of Education)

Mr. J. L. Lloyd, M.Sc., A.R.I.C. (Principal, Gelli Aur Farm Institute) Council for Wales Americation

and Monmouththire *Country Landowners'

Lt.-Col. F. L. Dean (Council Member) Lt.-Col. J. F. Williams Wynne, p.5.0., p.L. (Council and Executive Member) Mr. G. W. Thomas (Secretary, Montgomeryshire and Merioneth

County Branch) *County Cosmeils*

Mr. W. J. Descon, M.A. Mr. W. B. Stevens Mr. H. Martin Wilson, M.A. Mr. R. R. Meyric Hughes (Deputy-Secretary)

Mr. E. Vaughan Jones (Vice-Chairman, Agricultural Education Mr. I. C. M. Dodd, B.A. (Deputy-Director of Education)

Mr. D. S. Edwards, B.Sc. (Principal, Llysfasi Farm Institute)

Education Committee Department of Agriculture for Scotland †Essex Institute

Association

*Denbighshire

Mr. B. H. Harvey, B.SC., N.D.A., N.D.D. (Principal) of Agriculture

Guild of Graduates Agricultural (Agricultural Panel) University of Wales

+Oral evidence only

Printed image digitised by the University of Southernoton Library Digitisation Unit

Agricultural Mt. R. McD. Greham, n.ac. (Senior Lecturer in Agriculture)

College
Dr. T. Leosday, Lasty Calairman of the Standing Joint Advisory Committee on Agricultural Education

Agilik Marketing
Dr. A. L. Provan, A.R.L. (Chief Chemist)

Board
*Ministry of H.Q. LONDON

Mr. C. G. W. Block (Bursar)

†Harber Adams

Agriculture, and lastly Professor B. G. Sanders, M.A., PRIN. (Chief Scientific Adviser, Professor B. G. Sanders, M.A., PRIN. (Chief Scientific Adviser, Professor B. Agriculture, and lastly Professor of Agriculture, and Capital Professor Agriculture, and Agricul

Mr. G. T. Morgan, N.D.A., N.D.D. (Chief Maik Production Advisory Officer)

H.Q. WALES
Mr. J. Morgan Jones, C.B.J. (Welsh Secretary)
Mr. E. Li. Harry, G.B.R., M.SC. (Director, National Agricultural

Mr. B. Ll. Harry, o.n.a., m.sc. (Director, National Agricultural Advisory Service, Wales)

† Ministry of Sir Ben Bowen Thomas (Permanent Secretary of Welsh Department)

†Ministry of Benediction Thomas (Permanent Secretary of Welsh Department Mr. A. E. Martington (Assistant Secretary, Welsh Department) Dr. T. I. Davies (H.M. Inspector of Schools, Wales) Dr. Marthew Williams (H.M. Inspector of Schools, Wales)

*Monmouthibire Education Committee Winding They are Committee Universities Committee C

Committee
Alcorman 1. Devan
Online 1. General Committee Control Contro

Momonoschhier Federation of Tederation of Trader and Labour Commits

National Mr. E. Capptick, M.C., M.SO. (British Dziry Farmers' Association)

*National Mr. E. Capstick, M.c., M.50. (British Dairy Furmers' Association)
Agricultural and
Agricultural and
Mr. E. G. E. Griffith (Royal Agricultural Society of England)
Mr. Hunter Smith (Royal Agricultural Society of England)
Mr. R. M. Lemona, S.J. (Secretary, Royal Highland and Agricultural Society of Sociand)
Mr. Aber Hobson, Mr. Ro, J. Secretary, Royal Agricultural Society

of England)
*National DairyMr. F. Proctor (Dairy Manager, Birmingham Co-operative Society)
man's Association
(Inc.)

(Inc.)

National Farmers Mt. W. S. Jones, B.S.C., J.P. (Member, Weish Committee)

Mr. E. M. Owens (Member, Development and Education Committee)

Mr. O. B. Redmayne (Member, Development and Education Committee)

Mr. H. C. Mason (Secretary, Development and Education Committee)

Mr. H. C. Mason (Secretary, Development and Education Committee Mr. G. D. Stevenson (Lately Secretary, Development and Education Committee)

*Oral and written evidence

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Television of Mr. D. Junes Agreement of Mr. D. Mr.
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*Dr. R. Phillips, Lisison Officer to Minister of Agriculture, Fisheries and Food A.R.I.C.

*Royal Welsh Mr. Moses Griffith, M.SC.
Agricultural Mr. T. Lewis, B.SC., M.S.
Society Mr. J. A. George (Secretary)

Mr. S. Farrell

*National

*University College Principal Goronwy Rees, M.A.
of Wales Mr. T. Mazlgwyn Davies, M.A. (Registrar)
Abersysteyth Professor W. Ellison, S.S.C., Ph.D. (Professor of Agriculture
(Crop Husbandery)

(Crop Husbandry))
Professor J. B. Nichols, M.Sc., PH.D., P.R.S.E. (Professor of Agriculture (Animal Husbandry))
Mr. J. Lewis, M.Sc., N.D.A., N.D.D. (Director of College Dairy)

University Grants
Committee

*University of Principal Sir Enrys Evans, M.A., 2.LITT. (Vior-Chancellor)
Walts Principal Goronwy Rees, M.A. (University College of Wales,

Wates
Principal Goronwy Rees, M.A. (University College of Wates,
Aberystwyth, Nichols, M.SC., PH.D., F.R.S.R. (University College of
Wates, Aberystwyth)
Professor R. Alua Roberts, B.SC., PH.D. (University College of North
Wates, Bancor)

*Ellectrion Councillor D. Lewis, M.B.S., J.P. (Chairman, Agricultural Education Education Sub-Committee)

Mr. H. Wyn Jones, M.A., B.S. (Secretary)

*Oral and written evidence ‡Also supplied a summary of L.E.A. opinion in Wales

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APPENDIX B

Response to Agriculture Diploma Gourses in Wales—Summary of Significant Data from Evidence

| | Quantitative Estimates or Galo | Other Data | | | |
|---|--|----------------------------------|--|--|--|
| Buidence from | Basis | Expressed as annual intake | | | |
| Gaernarvonshire Education Gammittee | _ | - | (i) *Each year 1-2 students from the county are assisted to study for N.D.A. in England. (ii) *Three of the 17 students a Glyallifon Farm Institute reported to be of N.D.A. potential. | | |
| Carmarthenshire Education Committee | - | - | Seven of the 39 students at Gelli Aur Farm Institute reported to be of N.D.A. potential. | | |
| County Councils' Association | *Betremely rough yardsticks yielded by applying to Wales the ratio obtaming: (a) in England between N.D.A students and agricultural population in the 18–21 age group; (b) in Shropshire between N.D.A. students and entire agricultural population. [†] | 25 24 | *Statistics of applications for M.A.F.F. scholarships suggest that Welsh candidates are more interested in degree and diploma courses than in farm institute courses, | | |
| Denbighshire Education Committee | _ | - | Seven of the 37 students at Llysfasi Farm Institute reported to be of N.D.A. potential. | | |
| Harper Adams Gollege | _ | - | *Fifteen Welsh applicants for the 1956 N.D.A. course: 4 accepted; only 3 others eligible. | | |
| Monmouthshire Education Authority | Enquiries (including one estimate) disclosed that 78 students had attended N.D.A. courses in England during the six years 1950–55. | 13 | (i) The Authority's enquiries revealed that the English centres had received 98 applications from Wales for the 1935-34 and 1954-55 sessions—27 students being accepted. Some applications may have been duplicated and some candidates may have been ineligible. (ii) Beech vera should 3 student | | |

*Oral evidence *The ratio for Shropshire may be high because Harper Adams College is situated in that county and also because the furms in Shropshire are, on the whole, fairly large. It has been suggested that, in order to make allowances for these facts, a more or less realistic estimate of Welsh annual intake based on the Shropshire ratio would be 15-20 places.

| | Quantitative Estimates or Calc | | | | |
|--|--|----------------------------------|--|--|--|
| Evidence from | Basis | Expressed as annual intake | Other Data | | |
| | | | from the county are assisted to study for N.D.A. in England and about 5 others are similarly assisted by adjacent Welsh L.B.A.s, including County Boroughs. (iii) Twelve of the 62 student at Usk Farm Institute reports to be of N.D.A. potential. | | |
| National Farmers' Union | By applying to Wales: (a) the ratio obtaining in England between the annual intake of students into N.D.A. courses and of people into the agricultural industry; (b) the ratio obtaining in England between farm | 47 | | | |
| | institutes and diploma centres in the matter of (i) places provided (ii) annual intake of students; (c) the ratio obtaining in Bugland between N.D.A, and | 62 43 | | | |
| | N.D.D. students, and treating U.C.W.'s annual intake as the N.D.D. provision for Wales | 60 | | | |
| National Examination Boards | - | - | During the 5 years 1951-55, 33 Welsh residents took the N.D.A. examination. | | |
| Royal Welsh Agricultural Society | A questionnaire was addressed to English diploma centres to ascertain the average annual intake of Welsh N.D.A. students during 1951–54. | 20 | | | |

APPENDIX C

Minimum Cost of an Affiliated College CAPITAL COSTS

Buildings

| Chemistry laboratory (25 students) **Rilogy laboratory (25 students) 2 preparation rooms and stores Lecture room (60 students) 5 staff or study rooms Administrative accommodation Libeary Students' common room | | 30,200 | | | | | |
|--|--------------------------------|--------|--------|--|--|--|--|
| Furniture and equipment | | | | | | | |
| Chemistry laboratory Biology laboratory Lecture room and administrative block Library and common room | 1,300 1,100 1,000 750 | 4,150 | 34,350 | | | | |
| Farm †200 acres including live and dead stock | | | 16,000 | | | | |
| Minimum capital costs | | | 50,350 | | | | |
| ANNUAL RUNNING EXPENSES | | | | | | | |
| Qualified teaching staff: Director Lecturer in Crop Husbandry 3 ⊕ £1,000— | 2,000 | | | | | | |
| Lecturer in Animal Husbandry Lecturer in Agricultural Science Lecturer in Dairying 1 subject to be taken by Director | 3,000 | | | | | | |
| Assistant Lecturer in Agricultural Science Lecturer in Farm Mechanization half-time—share with Cardiganahire | 500 | | | | | | |
| Lecturer in Farm Management Lecturer in Veterinary Science Leconomics Department | 1,500 | 7,000 | | | | | |
| Technicians: 5–6 technical assistants to cover Agricultural Science, Dairy, Bacteriology and Farm Mechanisation | | 2,000 | | | | | |

Administrative Staff: Secretary/Bursar 850 450 Shorthand Typist Maintenance of laboratories, lecture rooms and offices Materials and replacements-bacteriology . 1.000 -botany and chemistry

*Also to be used as lecture room †In addition approximately £2,000 would be required for working capital Printed in Great Britain under the nuthority of Her Majesty's Stationery Office by The Stockport Express Ltd... General Printing Works, Heston Lane, Stockport, ed image digitised by the University of Southampton Library Digitisation Unit

Rates, insurance, heat, light, repairs, cleaning, etc.,

Minimum annual running expenses . .

326. 6123. 3782. K8/57

1,650 10,650 1.600 250 900

2,750

13,400